

2.5" & 3" R-Seal Rigid Envelope Insulation Panel



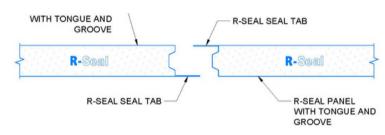
R-Seal is a comprehensive proprietary insulation system specifically designed for metal building owners and erectors. R-Seal provides the highest value in the industry by exceeding energy code and air/water barrier requirements for continuous insulation at the lowest installed cost.



PRODUCT SPECIFICATIONS

WIDTH COVERAGE	3'-5 3/4" / 3.479'	
THICKNESS	2.5" & 3"	
*STANDARD LENGTH	8'-0" TO 53'-0"	
EXTERIOR PROFILE	PS (Polypropylene/Scrim) Bonded to rigid foam	
EXTERIOR FACE	Uniformed Dimpling Pattern	
INTERIOR PROFILE	PS (Polypropylene/Scrim) Bonded to rigid foam	
INTERIOR FACE	ACE Uniformed Dimpling Pattern	
JOINT	Tongue & Groove	
FASTENING	TENING Through fastened with support channels at finished floor and eave areas	
CORE	Rigid closed cell modified Polyurethane/PUR/PIR core, structural and fire rated components between fiber-reinforced polypropylene	

R-Seal Tape Tab Detail



R-Value and U-Factor

	R-Value	U-Factor	Thickness/Inches	Joint Style
	R-15	0.064	2.0"	Butt
	R-18.75	0.053	2.5"	Tongue & Grooved
	R-22.5	0.044	3.0"	Tongue & Grooved
ĺ	R-30	0.031	4.0"	Ship Lap
ĺ	R-37.5	0.027	5.0"	Ship Lap

Custom Length Panels are Available Upon Request

TESTING: R-Seal: Rigid Envelope Insulation Panel

TEST / APPROVAL	TEST METHOD	TEST TITLE	RESULTS
Fire US	ASTM E84	Surface Burning Characteristics of Building Materials	Class A Listed Flame Spread FSI <25 Smoke Developed <450
	R-Seal E84 Actual Tested	Composite product flame-spread and smokedeveloped tested actual performance	Flame Spread FSI <5 Smoke Developed <250
	ASTM 1715	Full-Scale Fire Testing	PASS
Fire Canada	CAN/ULC S102	Surface Burning Characteristics of Building Materials and Assemblies	Class A Listed Flame Spread FSI <25 Smoke Developed <450
	CAN/ULC S138	Full-Scale Fire Testing	PASS
Structural Performance	OSHA Drop Test Standard 1926.502(c)(4)(i)	Fall Protection for Walking-Working Surfaces	PASS
Air Barrier	ASTM E283 Assembly	Tested Method for Determining Rate of Air Leakage	PASS / 0.04 CFM/ft ² at 75 PA
	ASTM E283 Assembly Actual Tested	Tested Method for Determining Rate of Air Leakage	0.013 CFM/ft² at 75 PA
	ASTM E779 Whole Building Test	Tested Method for Determining Rate of Air Leakage	PASS / 0.4 CFM/ft² at 75 PA
	ASTM E779 Whole Building Tested	Tested Method for Determining Rate of Air Leakage	*Average 0.1 CFM/ft² at 75 PA
Water Infiltration	ASTM E331	Tested Method for Water Penetration	15 min @ 2.86 psf / PASS 2 hr @ 6.24 psf / PASS
Thermal Performance	ASTM C518-15	Tested in accordance with: <u>ASTM C518-15</u> Thermal Transmission by means of the heat flow apparatus.	
		Tested at Mean temperature of 75 degrees Thermal Resistance "R" per inch: 7.5 Tested at Mean temperature of 55 degrees Thermal Resistance "R" per inch: 7.7 Tested at Mean temperature of 20 degrees Thermal Resistance "R" per inch: 8.7	
Compression Strength	ASTM D1621	Tested Method for Determining Compressive Strength	31 - psi Perpendicular
	I		*Based on Field Testing